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AMENDMENTS TO THE CLAIMS

Please amend claims 8 and 21-23. A complete listing of the claims is provided below.

1-7 (Cancelled)

- 8. (Currently amended) A method for in vitro screening for a peptide capable of altering the phenotype of a cell, said method comprising the steps:
- a) introducing a molecular library of retroviral vectors comprising randomized nucleic acids into a plurality of cells to provide for expression of a plurality of test peptides each comprising a randomized amino acid sequence of up to 10 amino acids in length and a glycine N-terminal to said randomized amino acid sequence,
- b) screening said plurality of cells for a cell exhibiting an altered phenotype due to an interaction between a test peptide and a cellular component that is not produced using a nucleic acid made using recombinant DNA technology; and
 - c) identifying said peptide capable of altering the phenotype of said cell.
 - 9. (Previously presented) A method according to claim 8 wherein said identifying comprises:
 - i) isolating said cell exhibiting an altered phenotype.
- 10. (**Previously presented**) A method according to claim 9 wherein said identifying further comprises:
 - ii) sequencing said nucleic acid encoding said peptide capable of altering the phenotype of said cell.
- 11. (Previously presented) A method according to claim 8 wherein said nucleic acids further encode a presentation sequence capable of presenting said test peptides in a conformationally restricted form.

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- 12. (Previously presented) A method according to claim 8 wherein said cells are mammalian cells.
- 13. (Previously presented) A method according to claim 8 wherein said library comprises at least 10⁴ different nucleic acids.
- 14. (Previously presented) A method according to claim 8 wherein said library comprises at least 10⁵ different nucleic acids.
- 15. (Previously presented) A method according to claim 8 wherein said library comprises at least 10⁶ different nucleic acids.
- 16. (Previously presented) A method according to claim 8 wherein said library comprises at least 10⁷ different nucleic acids.
- 17. (Previously presented) A method according to claim 8 wherein said library comprises at least 10⁸ different nucleic acids.
- 18. (Previously presented) A method according to claim 8 wherein said library comprises at least 10⁹ different nucleic acids.
- 19. (Previously presented) A method according to claim 8 wherein each of said nucleic acids is linked to nucleic acid encoding at least one fusion partner.
- 20. (Previously presented) A method according to claim 19 wherein said fusion partner comprises a nuclear localization signal sequence.
- 21. (Currently amended) A method for in vitro screening for a peptide capable of altering the phenotype of a cell, said method comprising the steps:

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a) introducing a molecular library of retroviral vectors comprising randomized nucleic acids into a plurality of cells to provide for expression of a plurality of test peptides each comprising a randomized amino acid sequence of up to 10 amino acids in length,

- b) screening said plurality of cells for a cell exhibiting an altered cell growth phenotype, wherein said altered phenotype is due to an interaction between a test peptide and a cellular component that is not produced using a nucleic acid made using recombinant DNA technology; and
 - c) identifying said peptide capable of altering the cell growth phenotype of said cell.
- 22. (Currently amended) A method for in vitro screening for a peptide capable of altering the phenotype of a cell, said method comprising the steps:
- a) introducing a molecular library of retroviral vectors comprising randomized candidate nucleic acids into a plurality of cells to provide for expression of a plurality of test peptides each comprising a randomized amino acid sequence of up to 10 amino acids in length;
- b) screening said plurality of cells for a cell exhibiting an altered cell death phenotype, wherein said altered phenotype is due to an interaction between a test peptide and a cellular component that is not produced using a nucleic acid made using recombinant DNA technology; and
 - c) identifying said peptide capable of altering the cell death phenotype of said cell.
- 23. (Currently amended) A method for in vitro screening for a peptide capable of altering the phenotype of a cell, said method comprising the steps:
- a) introducing a molecular library of retroviral vectors comprising randomized candidate nucleic acids into a plurality of cells to provide for expression of a plurality of test peptides each comprising a randomized amino acid sequence of up to 10 amino acids in length;
- b) screening said plurality of cells for a cell exhibiting a change in expression of a cellular differentiation marker, wherein said change in expression is due to an interaction between a test peptide and a cellular component that is not produced using a nucleic acid made using recombinant DNA technology; and
- c) identifying said peptide capable of changing expression of a cellular differentiation marker of said cell.

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24. (Previously presented) The method according to claim 23, wherein said cellular differentiation markers are characteristic of T-cell activation.

25. (Previously presented) The method according to claim 23, wherein said cellular differentiation markers are characteristic of B-cell activation.